

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

5 Listing of claims:

1-38. (Canceled)

39. (New) An implantable injection port and deployment tool system, comprising:

10 an implantable injection port comprising a housing and a septum retained by the housing, one end of the septum forming an upper face of the port generally oriented in a plane perpendicular to a vertical axis, the septum being capable of penetration by a needle along the vertical axis, the port further including a space below the septum defining a fluid reservoir and an outlet conduit through the housing from the reservoir, wherein the port further includes a fastener incorporated into the housing to enable a user to attach the
15 port to tissue without sutures, the fastener having an undeployed position and a deployed position, the deployed position extending below a lower face of the port opposite the upper face; and

a deployment tool having a proximal shaft and a distal cover defining a recess that receives the port therein such that the lower face of the port is exposed, the cover and
20 recess being oriented to extend down over the port generally vertically, the proximal shaft extending upward from the distal cover at an angle to the vertical and having a proximal manual actuator, the tool including a transmission in the shaft for transmitting movement of the actuator through elements in the shaft to the port for moving the fastener from its undeployed position to its deployed position and anchoring the port to tissue.

25 40. (New) The system of claim 39, wherein the deployment tool is activated via a pencil-grip actuator, a palm-grip actuator or a pistol-grip actuator.

41. (New) The system of claim 39, wherein the fastener pivotally rotates in the
30 housing from the undeployed position to the deployed position.

42. (New) The system of claim 41, wherein the transmission converts motion of the manual actuator into rotational motion about the vertical axis to cause the fastener to rotate.

43. (New) The system of claim 39, wherein the fastener pivotally rotates in the housing from the undeployed position to the deployed position, and the port further comprises a rotating disc for rotating the fastener from the undeployed position to the deployed position, and wherein the deployment tool contacts and rotates the rotating disc.

44. (New) The system of claim 43, wherein there are a plurality of the fasteners in the form of curved hooks distributed around the lower face of the port that each pivot from the undeployed position to the deployed position.

45. (New) The system of claim 44, wherein sharp tips of the curved hooks rotate through an arc and are received back in or near the lower face of the port at the end of their travel.

46. (New) The system of claim 39, wherein there are a plurality of the fasteners in the form of curved hooks distributed around the lower face of the port that each pivot from the undeployed position to the deployed position.

47. (New) The system of claim 46, wherein sharp tips of the curved hooks rotate through an arc and are received back in or near the lower face of the port at the end of their travel.

48. (New) An implantable injection port and deployment tool system, comprising:
an implantable injection port comprising a housing and a septum retained by the housing, one end of the septum forming an upper face of the port, the septum being capable of penetration by a needle along the vertical axis, the port further including a space below the septum defining a fluid reservoir and an outlet conduit through the housing from the reservoir, wherein the port further includes a fastener incorporated into

the housing to enable a user to attach the port to tissue without sutures, the fastener having an undeployed position and a deployed position, the deployed position extending below a lower face of the port opposite the upper face; and

5 a deployment tool having a proximal shaft and a distal cover with a recess that receives the port therein such that the lower face of the port is exposed, the proximal shaft extending upward from the distal cover and having a proximal manual actuator, the tool further including a transmission for transmitting movement of the actuator through elements in the shaft to the port for moving the fastener from its undeployed position to its deployed position and anchoring the port to tissue, the transmission including a
10 mechanism to amplify the force imparted to the actuator to a larger force exerted on the fastener.

49. (New) The system of claim 48, wherein the deployment tool is activated via a pencil-grip actuator, a palm-grip actuator or a pistol-grip actuator.

15 50. (New) The system of claim 48, wherein the fastener pivotally rotates in the housing from the undeployed position to the deployed position.

51. (New) The system of claim 50, wherein the transmission converts motion of the
20 manual actuator into rotational motion about the vertical axis to cause the fastener to rotate.

52. (New) The system of claim 48, wherein the fastener pivotally rotates in the housing from the undeployed position to the deployed position, and the port further comprises a rotating disc for rotating the fastener from the undeployed position to the deployed position, and
25 wherein the deployment tool contacts and rotates the rotating disc.

53. (New) The system of claim 52, wherein there are a plurality of the fasteners in the form of curved hooks distributed around the lower face of the port that each pivot from the undeployed position to the deployed position.

54. (New) The system of claim 53, wherein sharp tips of the curved hooks rotate through an arc and are received back in or near the lower face of the port at the end of their travel.

55. (New) The system of claim 48, wherein there are a plurality of the fasteners in the form of curved hooks distributed around the lower face of the port that each pivot from the undeployed position to the deployed position.

56. (New) The system of claim 55, wherein sharp tips of the curved hooks rotate through an arc and are received back in or near the lower face of the port at the end of their travel.

57. (New) An implantable injection port and deployment tool system, comprising:
an implantable injection port comprising a housing and a septum retained by the housing, one end of the septum forming an upper face of the port, the septum being capable of penetration by a needle along the vertical axis, the port further including a space below the septum defining a fluid reservoir and an outlet conduit through the housing from the reservoir, wherein the port further includes a fastener incorporated into the housing to enable a user to attach the port to tissue without sutures, the fastener having an undeployed position and a deployed position, the deployed position extending below a lower face of the port opposite the upper face; and

a deployment tool having a proximal shaft and a distal cover with a recess that receives the port therein such that the lower face of the port is exposed, the proximal shaft extending upward from the distal cover and having a proximal palm-grip actuator, the tool including a transmission for transmitting movement of the actuator through elements in the shaft to the port for moving the fastener from its undeployed position to its deployed position and anchoring the port to tissue, the palm-grip actuator being angled with respect to the shaft and pivotally mounted with respect to a housing portion fixed to the shaft to enable an operator to squeeze the palm-grip actuator and housing portion together in his/her palm and deploy the fastener.

58. (New) The system of claim 57, wherein the fastener pivotally rotates in the housing from the undeployed position to the deployed position.

5 59. (New) The system of claim 58, wherein the transmission converts motion of the manual actuator into rotational motion about the vertical axis to cause the fastener to rotate.

60. (New) The system of claim 57, wherein the fastener pivotally rotates in the housing from the undeployed position to the deployed position, and the port further comprises a
10 rotating disc for rotating the fastener from the undeployed position to the deployed position, and wherein the deployment tool contacts and rotates the rotating disc.

61. (New) The system of claim 60, wherein there are a plurality of the fasteners in the form of curved hooks distributed around the lower face of the port that each pivot from the
15 undeployed position to the deployed position.

62. (New) The system of claim 61, wherein sharp tips of the curved hooks rotate through an arc and are received back in or near the lower face of the port at the end of their travel.
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63. (New) The system of claim 57, wherein there are a plurality of the fasteners in the form of curved hooks distributed around the lower face of the port that each pivot from the undeployed position to the deployed position.

25 64. (New) The system of claim 63, wherein sharp tips of the curved hooks rotate through an arc and are received back in or near the lower face of the port at the end of their travel.